



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. N Santhisree	Department:	ME
Regulation:	IARE - R16	Batch:	2017 - 2021
Course Name:	Heat Transfer	Course Code:	AME016
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Recall the basic concepts of heat transfer mechanisms and general heat conduction equation in Cartesian, Cylindrical and Spherical Coordinate System for various measures of heat transfer rate.	3.00	2.50	2.9	Attainment target reached
CO2	Solve problems involving steady state heat conduction with and without heat generation in simple geometries.	3.00	2.50	1.2	Attainment target not reached
CO3	Make use of the concept of Boundary layer theory for the derivation of empirical relations related to the characteristics of Boundary layer.	3.00	2.50	1.2	Attainment target not reached
CO4	Utilize the principles associated with convective heat transfer to formulate and solve the heat transfer coefficients for various cross section areas	3.00	2.40	2.9	Attainment target reached
CO5	Explain the physical mechanisms involved in radiation heat transfer, boiling and condensation to give various correlations applied to heat exchangers, boilers, heat engines, etc.	3.00	0.00	2.4	Attainment target reached
CO6	Analyze LMTD and NTU techniques for tackling real time problems with thermal analysis, simulation (mathematical model) and cost optimization of heat exchangers.	3.00	0.00	2.4	Attainment target reached


Action taken report:

CO2: More tutorials may be conducted on steady state heat conduction with and without heat generation in simple geometries.

CO3: More problems need to be given on boundary layer theory for the derivation of empirical relations related to the characteristics of boundary layer.


Course Coordinator


Mentor


Head of the Department
Mechanical Engineering
HOD
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